

VOXSPELL: User Manual

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Introduction

Thank you for using VOXSPELL!

VOXSPELL is a spelling aid tool that provides real-time feedback to support you while you practice spelling words to improve your vocabulary.

This user manual aims to guide you through starting up and using the VOXSPELL application to its fullest.

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1.0 Quick Start

To start a VOXSPELL session, first change the current directory to the same location as the VoxSpellApp.jar file. Then, execute the following command into the terminal:

```
bash RUNME
```

2.0 Main Menu

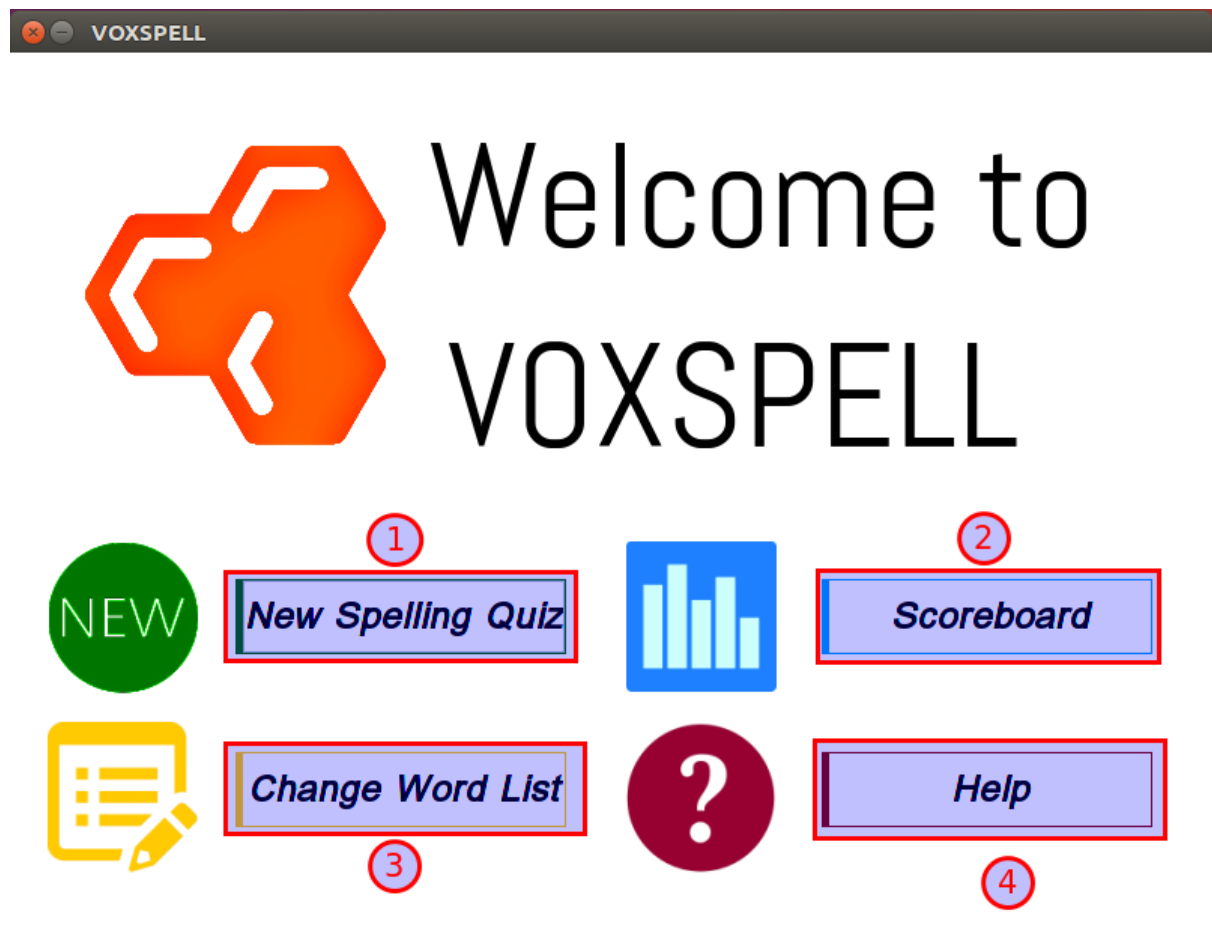


Figure 1: Main Menu screen

In the main menu there are 4 options to choose from:

Section	Function	Description
1	New Spelling Quiz	Starts a new spelling quiz
2	Scoreboard	Shows the latest scores for all previous quiz games
3	Change Word List	To change the entire word list or just some words in the current word list.
4	Help	Shows help/instructions in the application itself.

3.0 New Spelling Quiz

3.1 Playing a new spelling quiz game

Spelling Quiz

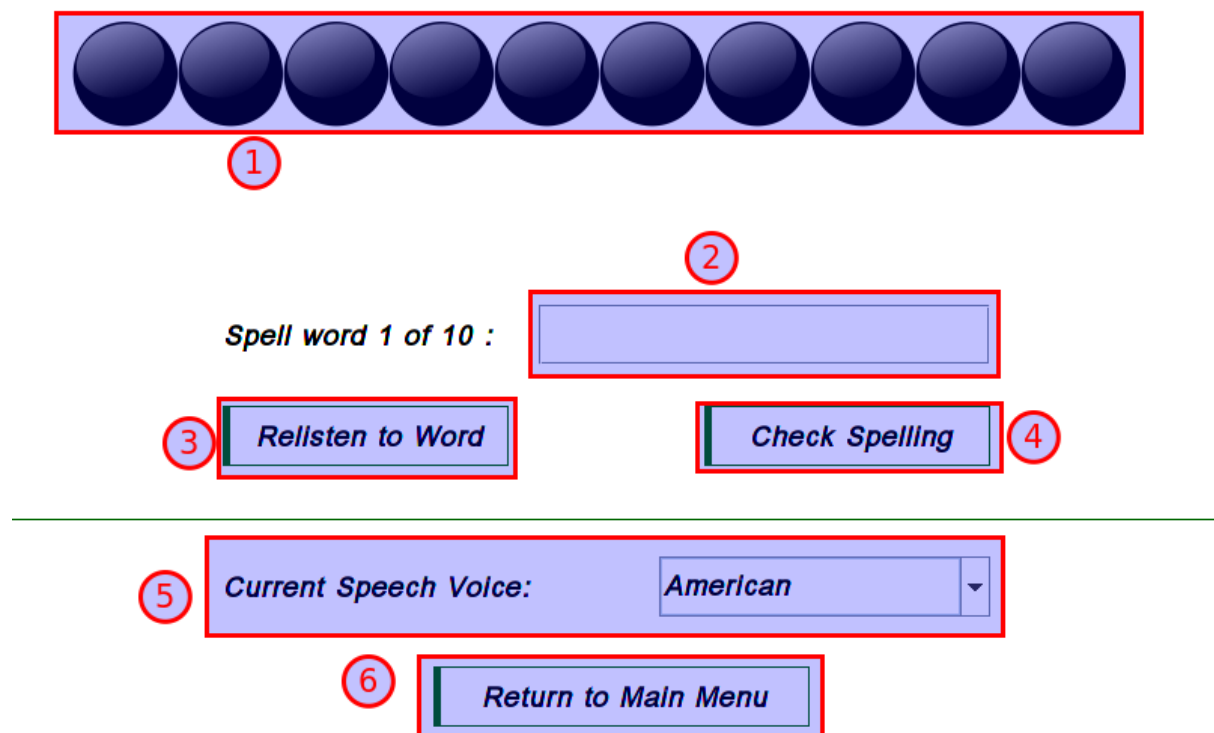


Figure 2: New spelling quiz screen

1. To start a new spelling quiz, click the 'New Spelling Quiz' button in the main menu.
2. The screen will show a pop up window, prompting you to choose a category of words to be quizzed on (as shown in Figure 3 and 4). There are 4 categories to choose from in the drop down menu: Adjectives, Adverbs, Nouns and Verbs. After choosing a category, click OK. If you want to return to the main menu instead, click Cancel.

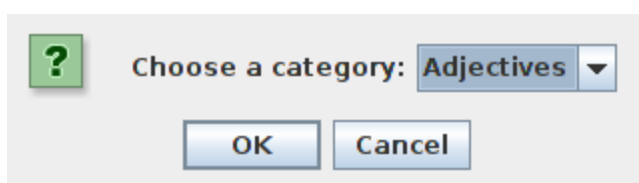


Figure 3: Choose category pop up

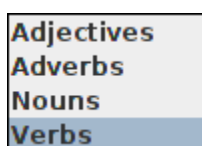


Figure 4: Categories to choose from

3. The speech synthesiser (i.e. Festival) will prompt you to spell a word. For example, it will tell you to: "Please spell... 'Unique'."
4. Type the spelling of the word in the text box (shown as Section 2 in Figure 2). Then, press the Enter keyboard key or click 'Check Spelling' (shown as Section 4).
5. If you spelt the word correctly (i.e. you have 'mastered' the word), the black circle shape will turn into a green tick mark, as shown in Figure 5.

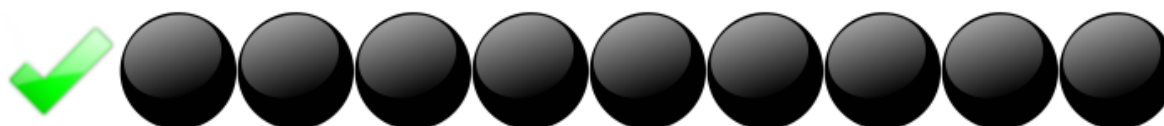


Figure 5: Spelt the first word correctly

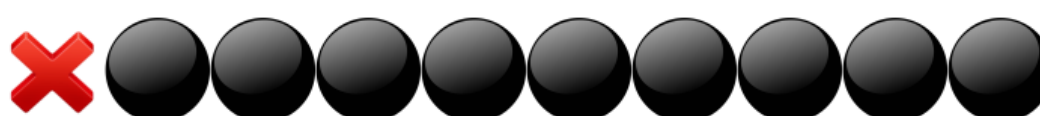
6. If you spelt the word incorrectly at first (i.e. you have 'faulted' the word), the black circle shape will turn into a red cross mark, as shown in Figure 6.



Figure 6: Spelt the first word wrongly

7. You will have a second chance to spell the word again. Please note that even if you had spelt the word correctly on your second chance, the red cross mark will not change.
8. If you spelt the word incorrectly on your second change, it means you have 'failed' the word and the screen will show you the word's correct spelling, as shown in Figure 7.

Spelling Quiz



The correct spelling of the word was: unique

A helpful hint may sometimes appear!

Spell word 2 of 10 :

Figure 7: Failed the first word

9. To hear the word to spell again, click the 'Relisten to Word' button (shown as Section 3 in Figure 2).
10. If you would like to hear the speech synthesiser speak in a different accent, choose an accent from the available options in the drop down menu (shown as Section 5 in Figure 2).

11. To return to the main menu at any time, click the 'Return to Main Menu' button (shown as Section 6 in Figure 2). Please note that the scores will only keep track of the words you have spelt so far and does not account for the other words you have yet to spell during the quiz.

3.2 End of quiz video

1. After spelling all 10 words, you may choose to play an 'End-of-Quiz' video (as shown in Figure 8).
2. The video is a slideshow with all the words that were quizzed during the game (as shown in Figure 9). During the video, you may pause/play, mute/unmute, skip forward or skip backward using the push buttons shown in Section 1 of Figure 9.
3. If you choose to not play the video or when the video has finished playing, then the screen automatically returns to the main menu.

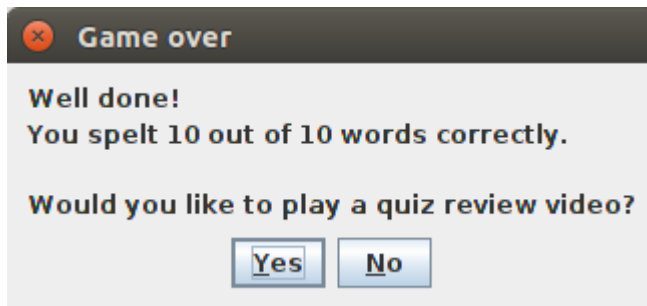


Figure 8: Choose to play a video



royal

Figure 9: End of quiz video

4.0 Scoreboard

Scoreboard

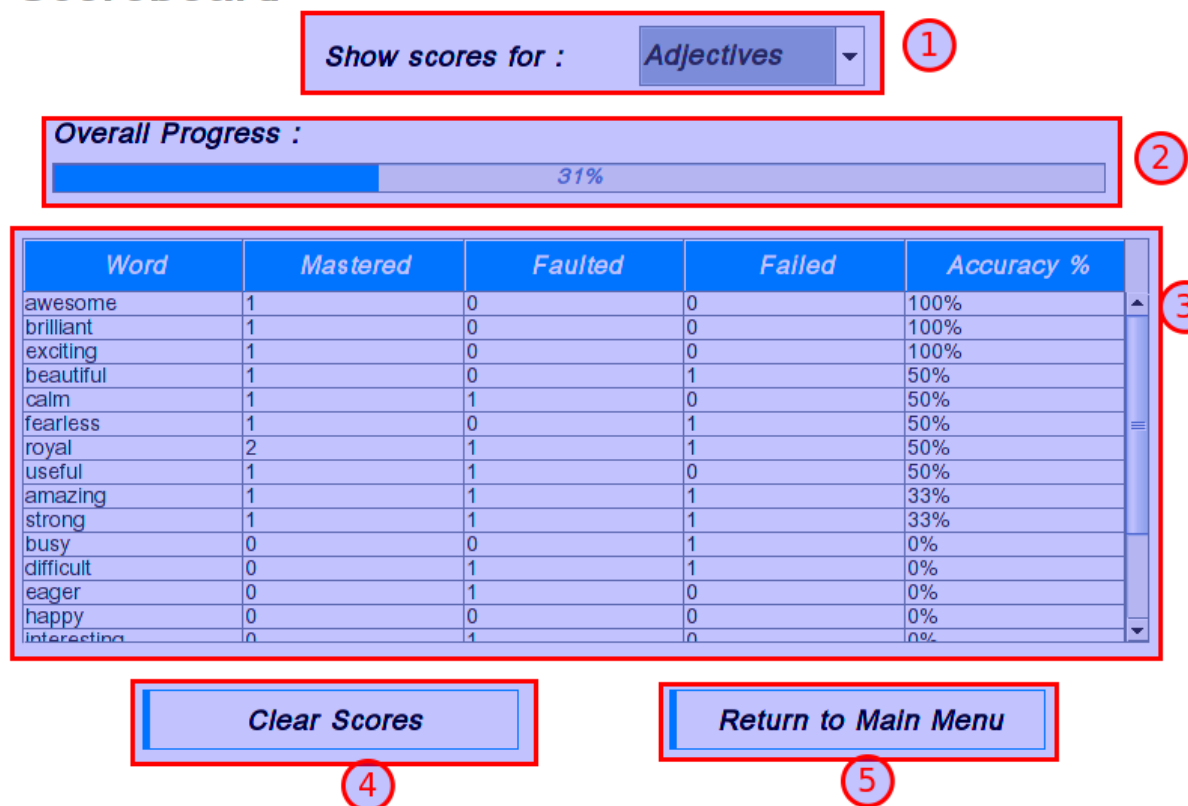


Figure 10: Scoreboard screen

1. To see the latest scores of all previous quizzes, click the 'Scoreboard' button in the main menu.
2. Choose a category of scores to see through the drop down menu (shown as Section 1 in Figure 10).
3. The progress bar (shown as Section 2 in Figure 10) shows your overall progress towards achieving 100% accuracy for each word in the category.
4. The table (shown as Section 3 in Figure 10) details your scores for each word in the category.
 - a. For each word, the number of times the word has been mastered (i.e. spelt correctly on the first try), faulted (i.e. spelt incorrectly on the first attempt but correctly on the second) and failed (i.e. spelt the word incorrectly on both attempts) as well as the accuracy % are shown.
 - b. The scores are first sorted by decreasing number of accuracy %, followed by the ascending order of the words.
5. To clear all the scores in the current category, click the 'Clear Scores' button (shown as Section 4 in Figure 10).
6. To return to the main menu, click the 'Return to Main Menu' button (shown as Section 5 in Figure 10).

5.0 Change Word List

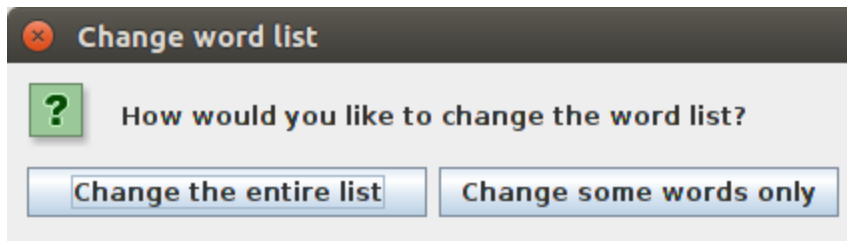


Figure 11: Change word list options

1. To change the entire word list or just some words in the current word list, click the 'Change Word List' button in the main menu.
2. The screen will show a pop up window (as shown in Figure 11), asking you how you would like to change the word list. If you would like to change the entire word list, click the 'Change the entire list' button. If you would like to change only some words in the current word list, click the 'Change some words only' button.

5.1 Changing the entire word list

1. Please note: changing the entire word list means all previous words, progress and scores will be removed.
2. Pick a file that contains the new word list through the pop up window.
 - a. For details on how the file should be formatted should be formatted, please refer to Appendix 1.
 - b. A template file is provided together with the application. You may add the words to this template and use this file for ease of use.



Warning!

Changing the entire word list means all previous words, progress and scores will be removed.

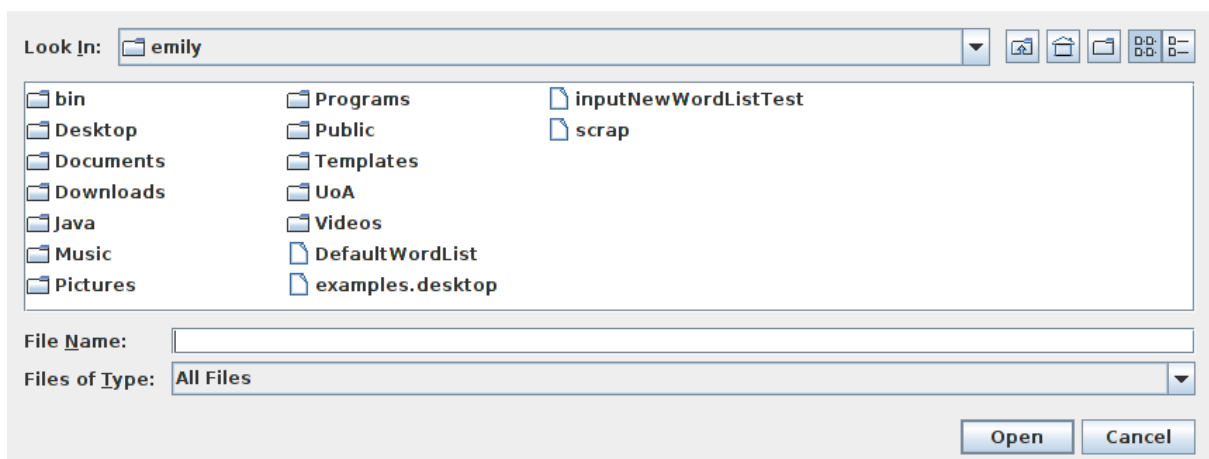


Figure 12: Changing the entire word list pop up

3. The screen will show a progress bar running while the new word list is being processed (shown as Section 1 in Figure 13).
4. Once the word list has finished processing and the current word list is successfully updated, the 'Progress Details' (shown as Section 2 in Figure 13) will show what words have been added to each category.
5. If an error occurred during processing, the 'Progress Details' will show what the error was and some helpful guidance to deal with the error.
6. To return to the main menu, click the 'Return to Main Menu' button (shown as Section 3 in Figure 13).

Change Word List

Changing the entire word list



Figure 13: Changing the entire word list screen

5.2 Changing some words in the current word list

Change Word List

Changing some parts of the word list

The screenshot shows a web interface for changing a word list. At the top, a label 'Change words in :' is followed by a dropdown menu showing 'Adjectives' (callout 1). Below this are two large light blue boxes. The left box is titled 'Add' (callout 2) and contains a list of words: 'amazing', 'beautiful', 'brilliant', 'happy', 'interesting', and several empty lines. The right box is titled 'Remove' (callout 3) and contains a list of words: 'royal', 'salty', 'strong', 'useful', 'positive', 'passionate', 'outstanding', 'difficult', and several empty lines. At the bottom, there are two buttons: 'Confirm Changes' (callout 4) and 'Cancel Changes' (callout 5).

Figure 14: Changing some words screen

1. First choose a category to change words in from the drop down menu (shown as Section 1 in Figure 14).
2. In the 'Add' table (shown as Section 2 in Figure 14), type in a word to add to the category in any line.
3. In the 'Remove' table (shown as Section 3 in Figure 14), type in a word to remove from the category in any line.
4. In each table, type in at most one word per line.
5. The maximum number of words you can add or remove at one time is 12.
6. If the word already exists in the category, then the word is not added.
7. If the word doesn't exist in the category, then the word is not removed.
8. To make the changes effective, click the 'Confirm Changes' button (shown as Section 4 in Figure 14).
9. To discard any unconfirmed changes and return to the main menu, click the 'Cancel Changes' button (shown as Section 5 in Figure 14).

6.0 Help

Help

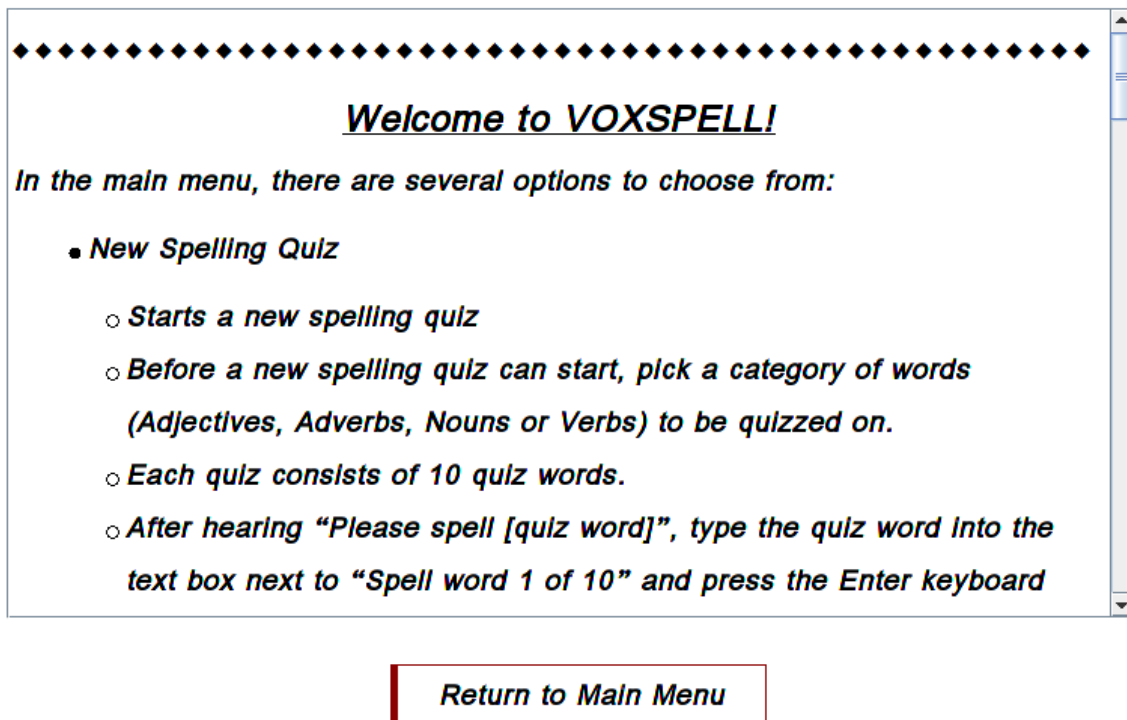


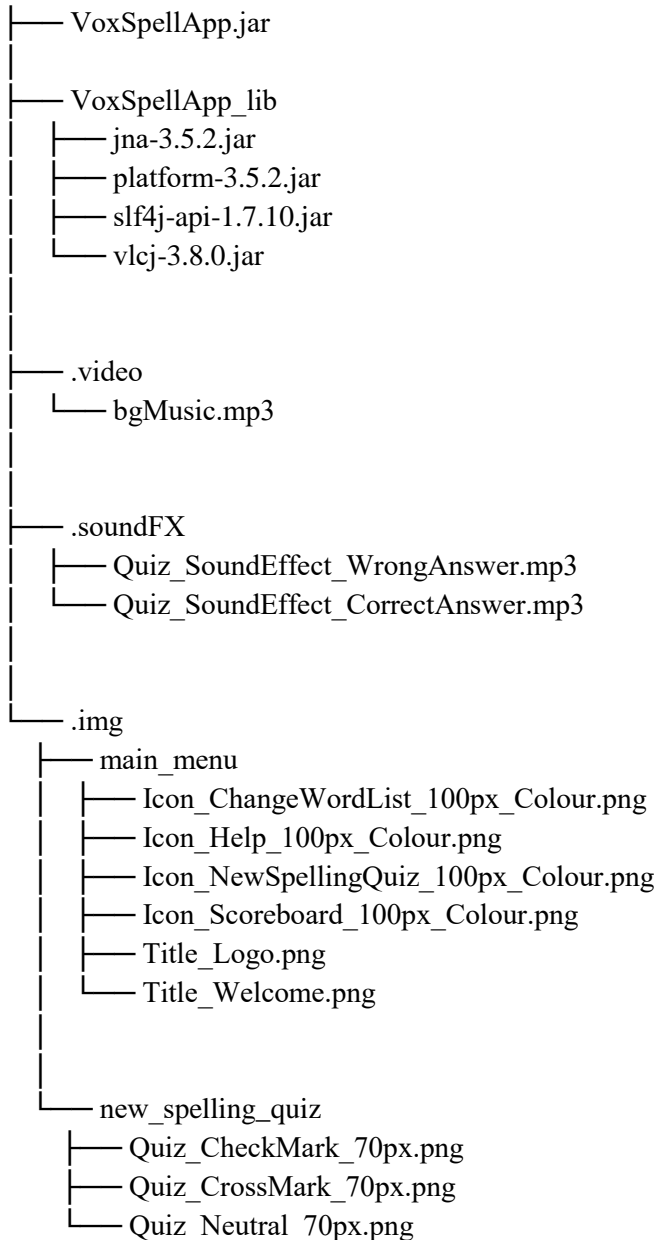
Figure 15: Help screen

1. To get help and instructions in the application itself, click the 'Help' button in the main menu.
2. To return to the main menu, click the 'Return to Main Menu' button on the screen.

7.0 Common errors and resolutions

This section lists the potential errors that could occur and ways to resolve those errors:

1. No sound from speech synthesiser
 - Please ensure you have the Festival package installed in your computer.
2. No sound effects during a new spelling quiz
 - Please ensure you have the mpg123 package installed in your computer.
3. Icon and/or logo images do not appear and/or end of quiz video does not play
 - Please check that you have the following files directories in the same folder as the VoxSpellApp.jar as they are the necessary media files.



8.0 Credits and acknowledgements

This application credits the following royalty-free sources for its media files:

1. Main menu title and logo
Square graphic by Freepik from Flaticon is licensed under CC BY 3.0. Made with LogoMaker.
2. New spelling quiz sound effects
<http://www.orange-freesounds.com/correct-answer-sound-effect/>
<https://www.freesound.org/people/Bertrof/sounds/131657/>
3. End of video background music
<http://www.purple-planet.com>

All other media files in the application are originals.

Appendix 1

Required file format of the new word list file:

1. The file must have the exact following headings, listed in order:
%Adjectives
%Adverbs
%Verbs
%Nouns
2. Underneath each heading (category), type in the words that will be quizzed in the category.
3. Each line must only consist of one word.
4. Each word must not contain any white spaces, more than 2 apostrophes and any non-alphabetic character (other than one apostrophe).